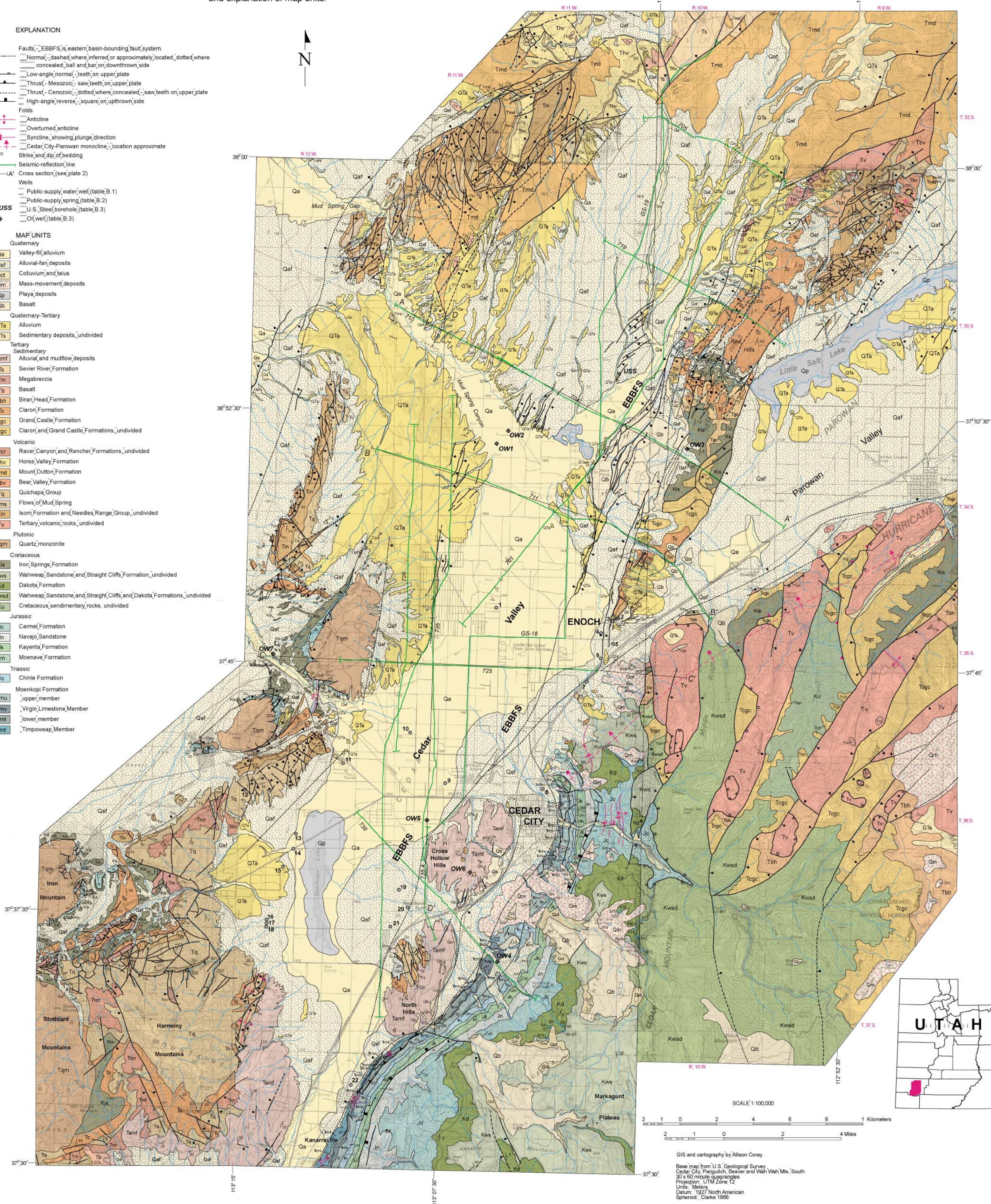


COMPILED GEOLOGIC MAP OF CEDAR VALLEY, IRON COUNTY, UTAH

Water SPECIAL STUDY 103
Plate 1
2002

See appendix A for sources of compilation, correlation of map units, stratigraphic column, and explanation of map units.

- EXPLANATION
- Faults, "EBBFS" is eastern basin-bounding fault system.
Normal, dashed where inferred or approximately located, dotted where concealed, ball and bar on downthrown side.
Low-angle normal, teeth on upper plate.
Thrust, Mesozoic, saw teeth on upper plate.
Thrust, Cenozoic, dotted where concealed, saw teeth on upper plate.
High-angle reverse, square on upthrown side.
- Folds
Anticline
Overturned anticline
Syncline, showing plunge direction
Cedar City-Parowan monocline, location approximate
Strike and dip of bedding
Seismic-reflection line
Cross section (see plate 2)
- Wells
Public-supply water well (table B.1)
Public-supply spring (table B.2)
U.S. Steel borehole (table B.3)
Oil well (table B.3)
- MAP UNITS
- Quaternary
Qa Valley-fill alluvium
Qaf Alluvial-fan deposits
Qcl Colluvium and talus
Qm Mass-movement deposits
Qp Playa deposits
Qb Basalt
- Quaternary-Tertiary
Qta Alluvium
Qts Sedimentary deposits, undivided
- Tertiary
Tm Megabreccia
Tb Basalt
Tbh Bear Valley Formation
Tc Claron Formation
Tgc Grand Castle Formation
Togc Claron and Grand Castle Formations, undivided
- Volcanic
Trcr Racer Canyon and Rencher Formations, undivided
Thv Horse Valley Formation
Tmd Mount Dutton Formation
Tbv Bear Valley Formation
Tq Quichapa Group
Tms Flows of Mud Spring
Tin Isom Formation and Needles Range Group, undivided
Tv Tertiary volcanic rocks, undivided
- Plutonic
Tqm Quartz monzonite
- Cretaceous
Kis Iron Springs Formation
Kws Wahweap Sandstone and Straight Cliffs Formation, undivided
Kd Dakota Formation
Kwsd Wahweap Sandstone and Straight Cliffs and Dakota Formations, undivided
Ku Cretaceous sedimentary rocks, undivided
- Jurassic
Jc Carmel Formation
Jn Navajo Sandstone
Jk Kayenta Formation
Jm Moenave Formation
- Triassic
Tc Chinle Formation
Tmu Moenkopi Formation, upper member
Tmv Virgin Limestone Member
Tml lower member
Tmt Timpoweap Member



GIS and cartography by Allison Corey

Base map from U.S. Geological Survey
Cedar City, Panguitch, Beaver and Wah Wah Mts. South
30 x 60 minute quadrangles
Projection: UTM Zone 12
Units: Meters
Datum: 1927 North American
Spheroid: Clarke 1866